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(54) **LIGHT FIXTURE ASSEMBLY HAVING IMPROVED HEAT DISSIPATION CAPABILITIES**

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(51) **Int. Cl.**
F21V 29/00 (2006.01)

(52) **U.S. Cl.** **362/373; 362/249.02; 362/294**

(58) **Field of Classification Search** **362/249.01, 362/249.02, 145, 404, 373, 294**
See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,738,436 A * 4/1998 Cummings et al. 362/294
6,375,338 B1 4/2002 Cummings et al.
6,388,388 B1 5/2002 Weindorf et al.
6,472,828 B1 10/2002 Pruett et al.

6,642,674 B2 11/2003 Liao et al.
7,183,727 B2 2/2007 Ferguson et al.
7,186,000 B2 3/2007 Lebens et al.
7,252,385 B2 8/2007 Engle et al.
7,722,227 B2 * 5/2010 Zhang et al. 362/364
2005/0213047 A1 9/2005 Slobodin et al.
2007/0139923 A1 6/2007 Negley et al.
2007/0223230 A1 9/2007 Trojanowski et al.
2007/0242461 A1 10/2007 Reisenauer et al.
2009/0109052 A1 4/2009 Stepps et al.

FOREIGN PATENT DOCUMENTS

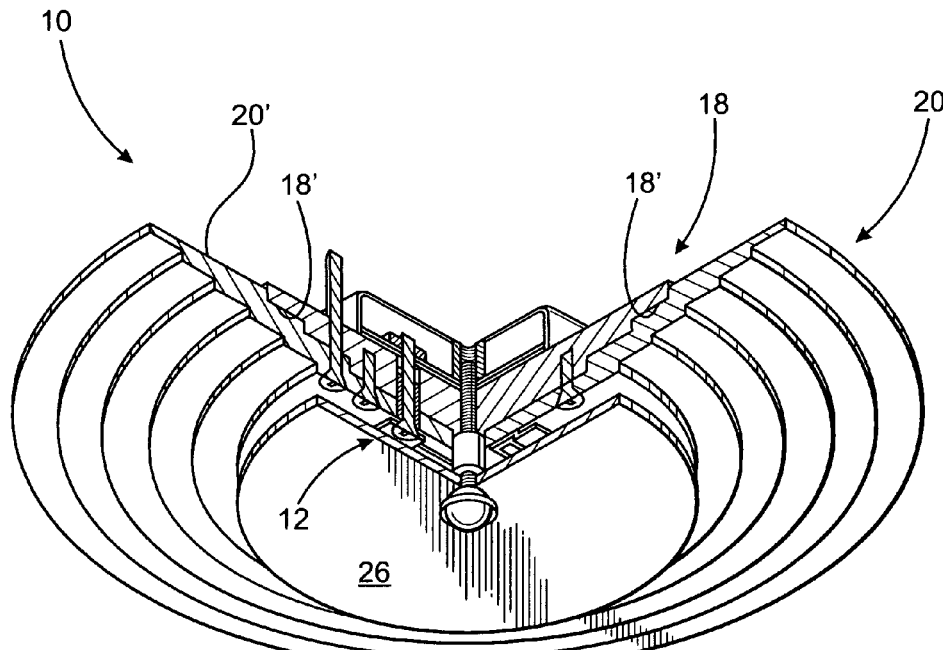
WO WO 2009/064433 A1 5/2009
WO WO 2009/064434 A1 5/2009
* cited by examiner

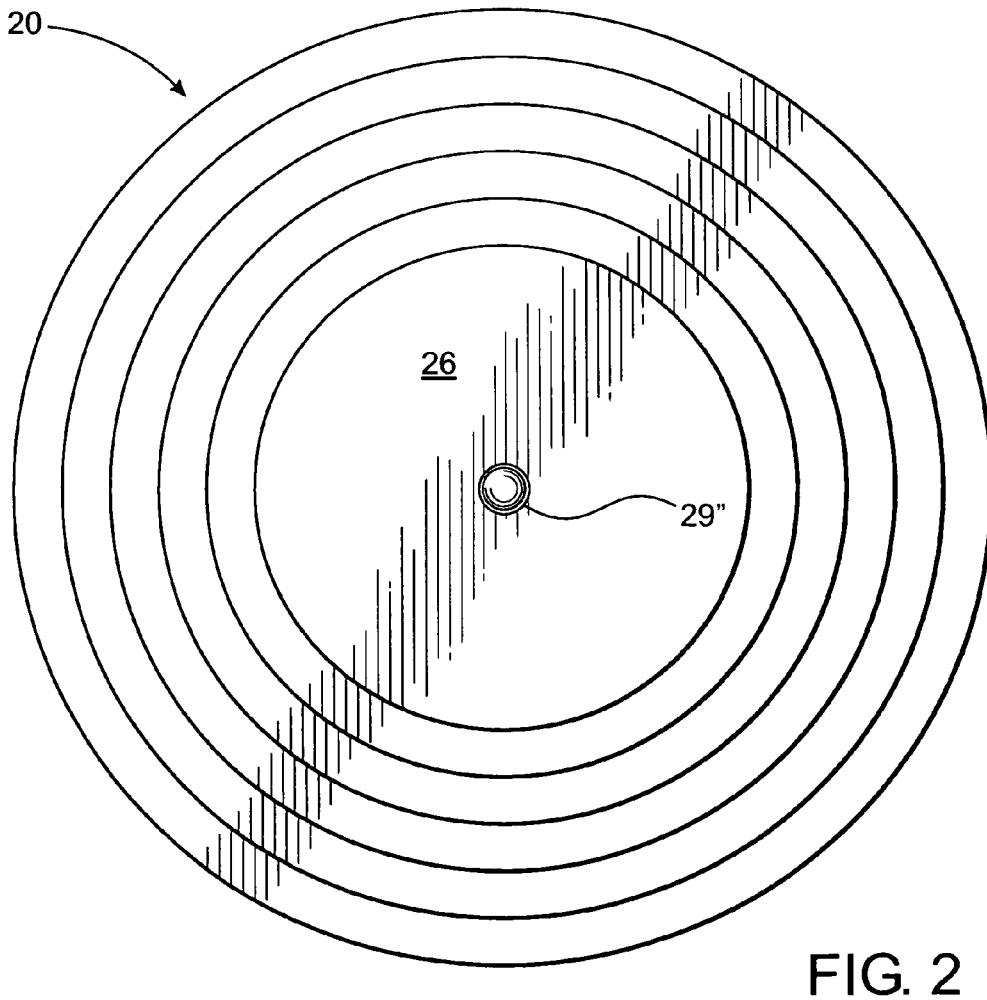
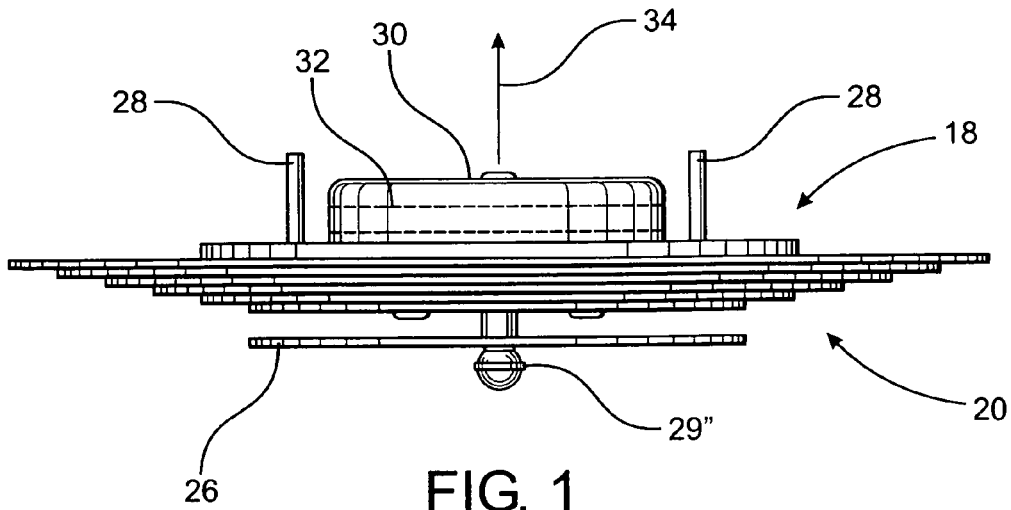
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(57) **ABSTRACT**

A light fixture assembly including an illumination assembly in the form of one or more light emitting diodes is interconnected to an electrical energy source by control circuitry. A mounting assembly supports the illumination assembly and a cover structure is disposed in heat transferring relation to the mounting assembly, wherein both the mounting assembly and the cover structure are formed of conductive material, thereby effectively dissipating the heat generated by the LED illumination assembly. The illumination assembly is connected to a source and electric energy by a conductor assembly comprising one or more conductive material connectors mechanically interconnecting components of the light fixture into an assembled orientation. A non-conductive insulation assembly isolates each of the one or more conductive connectors from the mounting assembly to avoid electrical contact there between.

22 Claims, 6 Drawing Sheets





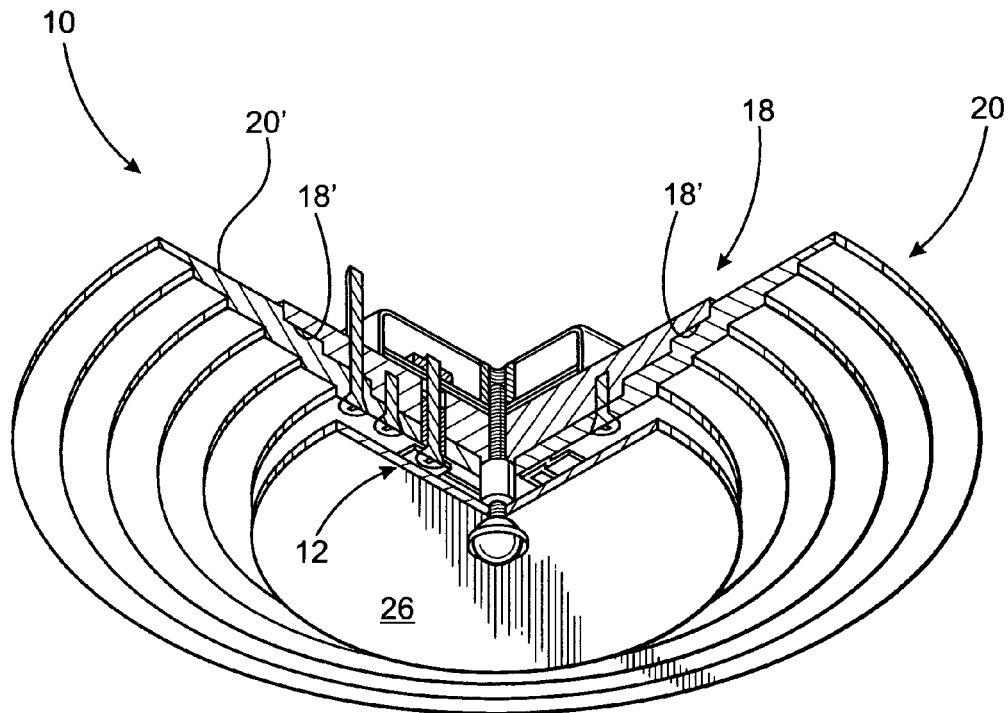


FIG. 3

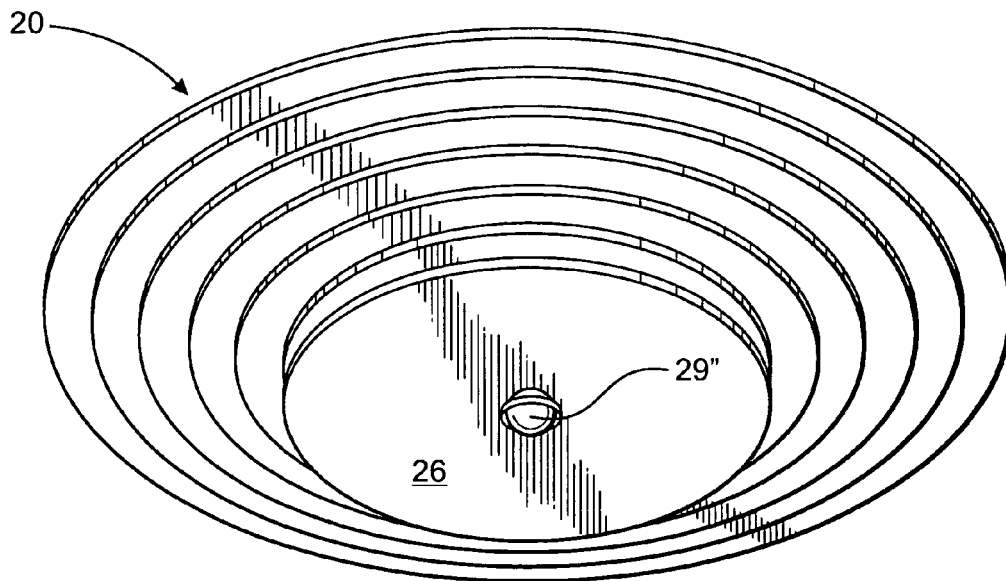


FIG. 4

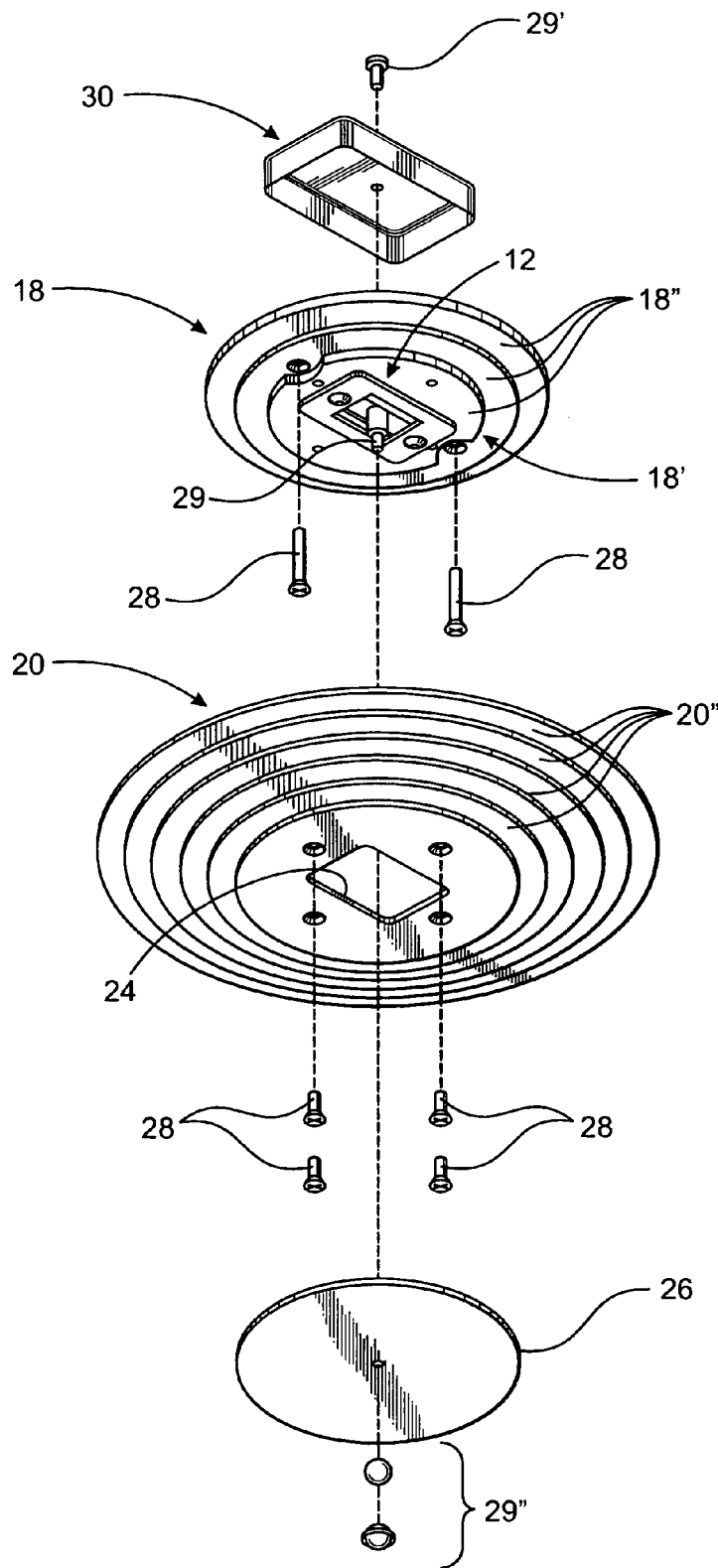


FIG. 5

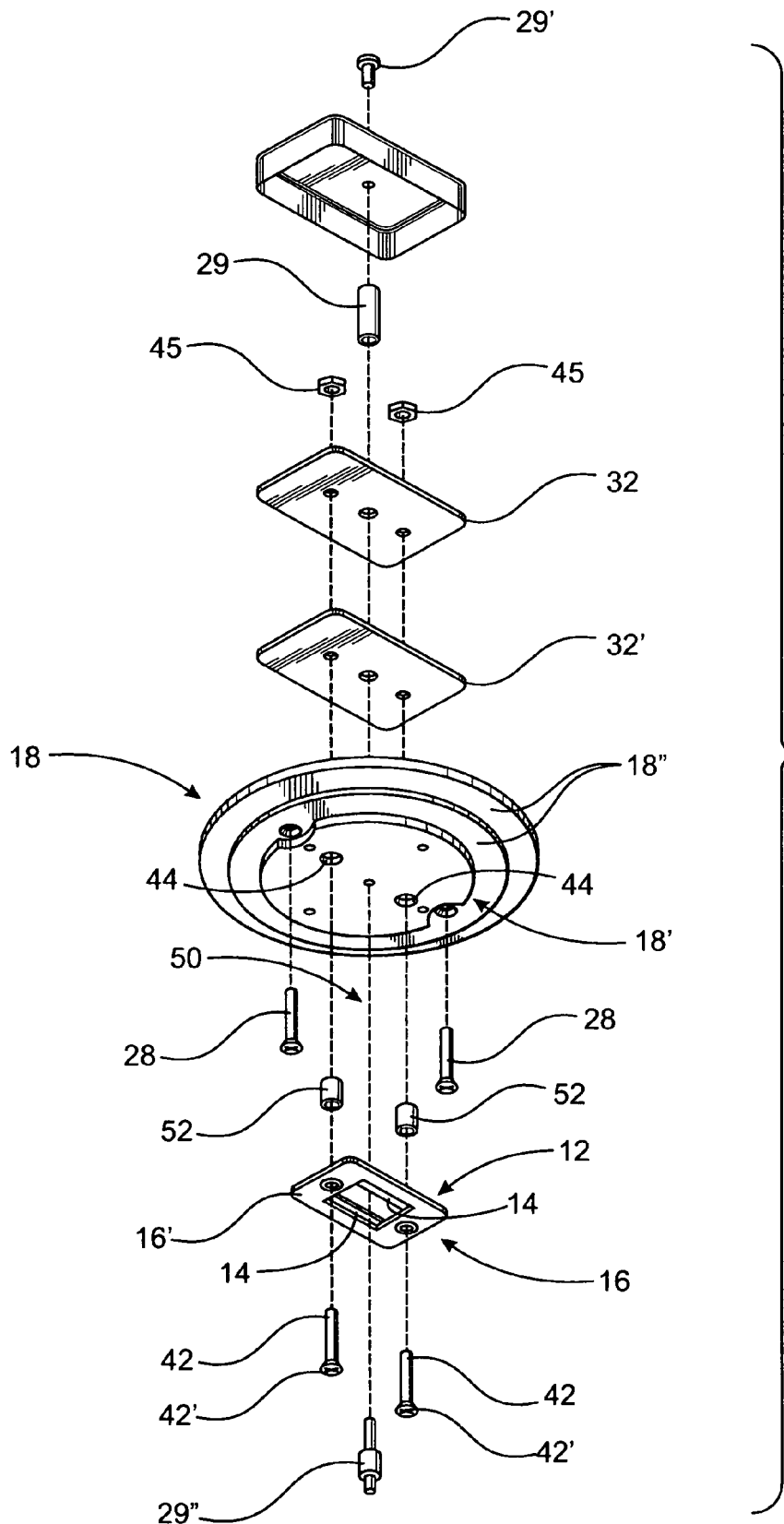


FIG. 6

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